PROJECT NUMBER : 1101
PROJECT TITLE : Entomological Research
PROJECT LEADER : D. L. Faustini
PERIOD COVERED : December, 1990

I. CIGARETTE BEETLE (CB) CONTROL PROGRAM

A. Objectives: (1) To determine if phosphine resistance is occurring in the feral CB, (2) to determine if physiological differences are present in laboratory and field colonies regarding methoprene, and (3) investigate alternatives to conventional tobacco pesticides.

B. Results: CB viability was studied from a diet of ART cut filler. Emergence rates from the ART filler are being compared to standard diet of ground flue-cured tobacco (1). Evaluation of S -methoprene versus R , S -methoprene treated tobacco for CB control has been completed. S -methoprene appears to be twice as active as the R , S -racemic at equal concentrations of the test agents (2).

C. Plans: Complete counting of F_1 emergence. Examine if any relationship exists between CB culture viability and type of processing of the ART filler. Rough draft of S-methoprene report is in preparation.

D. References:

1. Minor, M. F. Notebook No. 9024, pp. 1-2, 9-10.

2. Lehman, R. M. Notebook No. 8740, pp. 87-89.

II. SERVICE TO OTHERS

A. Objective: Provide technical services to areas outside R&D.

B. Results: A insect related customer complaint sample was investigated at the request of Product Audit personnel and results reports (1). An insect infestation involving PM80 cases was reported at the MZM processing plant. Booklice were found to be contaminating the outside of the cardboard cases, but not the contents (2).

C. Plans: Continue to provide support as requested.

D. References:

1. Lehman, R. M. Notebook No. 9014, p. 16.

2. Minor, M. F. Memo to J. R. Thomas, Jr. Insect Infestation of PM80 Cases. November 30, 1990.

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